

WHAT IS CLAIMED IS:

1. A self-aligning roller bearing comprising:  
an outer ring having a raceway taking a shape of  
circular arc and formed along its inner periphery;

5        an inner ring having a raceway disposed in a  
face-to-face relationship with the inner periphery  
sided raceway face of said outer ring and formed  
along its outer periphery;

10       two rows of spherical rollers interposed between  
the inner periphery sided raceway face of said outer  
ring and the outer periphery sided raceway face of  
said inner ring; and

a cage holding said two rows of spherical  
rollers,

15       wherein a flange of said cage includes a protruded  
portion having a large area on the side of a head of  
said spherical roller.

2. A self-aligning roller bearing according to  
20       claim 1, wherein said protruded portion is formed by  
press working.

3. A self-aligning roller bearing according to  
claim 1 or 2, wherein said protruded portion is  
25       formed in a shape of petals protruding toward an  
outside diameter by punching out a blank in the shape  
of petals when conducting a press punching work.

4. A self-aligning roller bearing according to claim 1 or 2, wherein if a minimum inside diameter of said outer ring is larger than a flange maximum  
5 diameter of said cage, said cage is formed in such a shape that part of the flange maximum diametrical portion is cut off.

5. A self-aligning roller bearing according to  
10 claim 3, wherein if a minimum inside diameter of said outer ring is larger than a flange maximum diameter of said cage, said cage is formed in such a shape that part of the flange maximum diametrical portion is cut off.

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6. A self-aligning roller bearing comprising:  
an outer ring having a raceway taking a shape of circular arc and formed along its inner periphery;  
an inner ring having a raceway disposed in a  
20 face-to-face relationship with the inner periphery sided raceway face of said outer ring and formed along its outer periphery;

two rows of spherical rollers interposed between the inner periphery sided raceway face of said outer  
25 ring and the outer periphery sided raceway face of said inner ring; and

a cage holding said two rows of spherical

rollers,

a central portion of said outer ring being formed with an oil supply hole, for supplying oil, extending in a radial direction,

5 wherein a flange of said cage includes a protruded portion on the side of a head of said spherical roller, and

a recessed portion formed in a rear face of the protruded portion communicates with the oil supply  
10 hole of said outer ring and extends through up to an inside diameter side from an outside diameter side.

7. A self-aligning roller bearing according to claim 6, wherein the protruded portion or the  
15 recessed portion is formed by press working.